

Agricultural Marketing Service, USDA

§51.3198

(k) Unhealed broken skins except those associated with growth cracks; and,

(l) Wormy fruit or worm holes.

METRIC CONVERSION TABLE

§ 51.3160 Metric conversion table.

Inches	Millimeters (mm)
1/8 equals	3.2
1/4 equals	6.4
3/8 equals	9.5
1/2 equals	12.7
5/8 equals	15.9
3/4 equals	19.1
7/8 equals	22.2
1 equals	25.4
1 1/4 equals	31.8
1 1/2 equals	38.1
1 3/4 equals	44.5
2 equals	50.8
3 equals	76.2
4 equals	101.6

**Subpart—United States Standards
for Grades of Bermuda-
Granex-Grano Type Onions**

SOURCE: 60 FR 46980, Sept. 8, 1995, unless otherwise noted.

GRADES

§ 51.3195 U.S. No. 1.

U.S. No. 1 consists of onions which meet the following requirements:

(a) Basic requirements:

- (1) Similar varietal characteristics;
- (2) Mature;
- (3) Fairly firm; and,
- (4) Fairly well shaped.

(b) Free from:

- (1) Decay;
- (2) Wet sunscald;
- (3) Doubles; and,
- (4) Bottlenecks.

(c) Free from damage caused by:

- (1) Seedstems;
- (2) Splits;
- (3) Dry sunken areas;
- (4) Sunburn;
- (5) Sprouting;
- (6) Staining;
- (7) Dirt or foreign material;
- (8) Mechanical;
- (9) Tops;
- (10) Roots;
- (11) Translucent scales;
- (12) Watery scales;

(13) Moisture;

(14) Disease;

(15) Insects; and,

(16) Other means.

(d) For size and tolerances see §§ 51.3198 and 51.3199.

§ 51.3196 U.S. Combination.

U.S. Combination consists of a combination of U.S. No. 1 and U.S. No. 2 onions: *Provided*, That at least 50 percent, by weight, of the onions in each lot meet the requirements of U.S. No. 1 grade. (See §§ 51.3198 and 51.3199.)

§ 51.3197 U.S. No. 2.

U.S. No. 2 consists of onions which meet the following requirements:

(a) Basic requirements:

(1) Similar varietal characteristics; and,

(2) Not soft or spongy.

(b) Free from:

- (1) Decay;
- (2) Wet sunscald; and,
- (3) Bottlenecks.

(c) Free from serious damage caused by:

- (1) Seedstems;
- (2) Dry sunken areas;
- (3) Sprouting;
- (4) Staining;
- (5) Dirt or other foreign material;
- (6) Mechanical;
- (7) Watery scales;
- (8) Insects;
- (9) Disease; and,
- (10) Other means.

(d) For size and tolerances see §§ 51.3198 and 51.3199.

SIZE CLASSIFICATIONS

§ 51.3198 Size classifications.

Size shall be specified in connection with the grade in terms of minimum diameter, range in diameter, minimum diameter with a percentage of a certain size or larger, or in accordance with one of the size classifications listed below: *Provided*, that unless otherwise specified, onions shall not be less than 1½ inches in diameter, with 60 percent or more 2 inches or larger in diameter.

Size designation	Minimum diameter		Maximum diameter	
	Inches	Millimeters	Inches	Millimeters
Small	1	25.4	2¼	57.2
Repacker/Prepacker ¹	1¾	44.5	3	76.2
Medium	2	50.8	3¼	82.6
Large or Jumbo	3	76.2	(²)
Colossal	3¾	95.3	(²)

¹ In addition to the sizes specified, a lot of onions designated as Repacker or Prepacker shall contain at least 60 percent or more 2 inches or larger in diameter.

² No requirement.

TOLERANCES

§ 51.3199 Tolerances.

In order to allow for variations incident to proper grading and handling in each of the foregoing grades the following tolerances, by weight, are provided as specified:

(a) For defects:

(1) *U.S. No. 1 and U.S. No. 2 grades.* Not more than 10 percent of the onions in a lot may fail to meet the requirements of these grades, but not more than one-fifth of this tolerance, or 2 percent, may be allowed for onions which are affected by decay or wet sunscald.

(2) *U.S. Combination grade.* When applying the foregoing tolerances to this grade no part of any tolerance shall be allowed to reduce, for the lot as a whole, the 50 percent of onions of the U.S. No. 1 grade, but individual containers shall have not less than 40 percent of the U.S. No. 1 grade.

(b) For size:

(1) Not more than 5 percent of the onions in a lot may be smaller than the minimum diameter specified. In addition, not more than 10 percent of the onions in a lot may be larger than the maximum diameter specified.

(2) When a percentage of the onions is specified to be a certain size and larger, individual packages containing more than 10 pounds may have not less than one-half of the percentage specified: *Provided*, that the entire lot averages within the percentage specified.

SAMPLES FOR GRADE AND SIZE DETERMINATION

§ 51.3200 Samples for grade and size determination.

Individual samples shall consist of at least 20 pounds for onions packed to meet larger than 2¼ inches maximum

diameter. When individual packages contain 20 pounds or more and the onions are packed for Large or Jumbo size or larger the package shall be the sample. When individual packages contain less than 20 pounds, a sufficient number of adjoining packages are opened to provide at least a 20 pound sample, except that for onions packed to meet 2¼ inches maximum diameter or smaller, the sample may consist of either 20 pounds or the individual package.

APPLICATION OF TOLERANCES

§ 51.3201 Application of tolerances.

Individual samples are subject to the following limitations:

(a) Samples which contain more than 20 pounds shall have not more than one and one half times a specified tolerance of 10 percent or more, and not more than double a specified tolerance of less than 10 percent, except that at least one defective and one off-size onion may be permitted in any sample: *Provided*, that en-route or at destination when onions in containers of 50 pounds or more are packed to a minimum size of 3 inches or larger not more than three onions or more than 4 percent (whichever is the larger amount) may be affected by decay or wet sunscald: *And provided further*, that the averages for the entire lot are within the tolerances specified for the grade; and,

(b) Samples which contain 20 pounds or less shall have not more than double the tolerance specified, except that at least one defective and one off-size onion may be permitted in any sample: *Provided*, that the averages for the entire lot are within the tolerances specified for the grade.